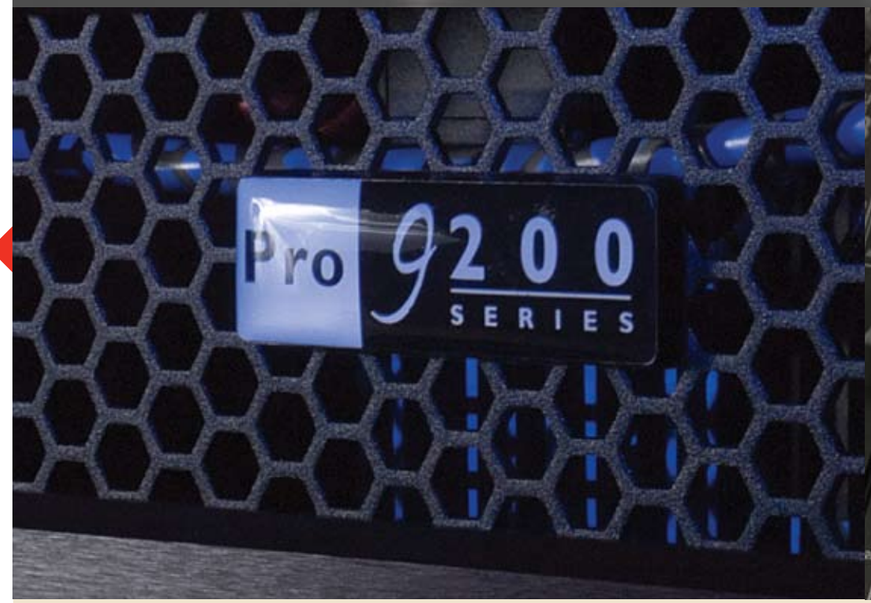
power control consoles

PHILOSOPHY

For over thirty years Crest Audio has been standard equipment in professional touring rigs and commercial installations throughout the world. With roots in high-end power amplifiers and world-class consoles, Crest Audio products are well known for rock-solid stability, quality and sonic excellence. Today, the tradition continues with a complete product range that serves a dynamic marketplace. Crest Audio products answer real-world demands and application-specific requirements with innovative designs and proven technologies that provide products with intuitive controls, installation-friendly packages and efficient connectivity. Continuing research and product development reflects a relentless commitment to ensure a foundation for emerging applications and new market demands. Service and support is second to none, ensuring that systems integrated with Crest Audio products deliver continuous performance for today's demanding applications. From concept to engineering and design to manufacturing, Crest Audio products continue to deliver the sonic performance, outstanding construction and superior quality that have made Crest Audio a standard among the world's audio elite.

Made In The U.S.A.



solid

stable

innovative design

installation-friendly

CONSOLE HISTORY
THE PROFESSIONAL STANDARD

CREST AUDIO
THE MAGIC IS IN THE MIX

Crest Audio consoles are famous for their superior sonic performance, musical EQ and robust summing amplifiers. Long a standard for professional touring work, Crest Audio consoles have been the choice of premier mix engineers throughout the world for over 20 years. Crest Audio consoles have their roots with legendary designer Jim Gamble, who was known as a no-compromise audio designer, producing custom analog modules for a variety of audio applications. Gamble's microphone preamplifiers were famous for their pristine, high-bandwidth performance while his summing busses ensured that the high levels of world-class touring acts had plenty of headroom. In 1989, Crest Audio became the exclusive manufacturer of Gamble consoles, with an initial offering of the famed Gamble EX Series. As the roots of this great console evolved, Crest Audio engineers refined the time-tested circuits of the Gamble design, cumulating with the release of the Century Series, which allowed Crest Audio to move from a relatively small, boutique console builder to the mainstream touring regional sound markets. The Century Series found its place in the growing large-format touring market, becoming a standard that still stands today. The V-12, a powerful blend of the Crest Audio sonic performance and the latest manufacturing techniques, arrived in 1998, giving touring companies a console that stood up to the rigors of road work with a rock-solid chassis and improved electronics assemblies. Subsequent releases expanded the Crest Audio console line and included the popular X-Series, which for the first time brought Crest Audio console performance to smaller, fixed installations. Today, with the rack-mounted XRM monitor mixer and the new HP Series combining the legacy of Crest Audio performance with state-of-the-art manufacturing and new features in a cost-effective package, Crest Audio is quickly becoming one of the most popular console builders in the world.

CREST AUDIO®

THE MAGIC IS IN THE MIX

The New Generation of VCA-Controlled Live Performance Consoles

CV™ 20 CONSOLE

The new CV 20 is a true VCA console, providing flexible operation for a wide variety of live-sound and fixed-installation applications. Configurable as a front-of-house or monitor console, the CV 20 includes a unique blend of powerful features, including three primary (LCR) busses, eight subgroups and twelve auxiliary busses. An expandable matrix and a generous array of additional outputs make the CV 20 one of the most versatile consoles available. With large-format features in a medium modular format—up to 56 mono and 8 stereo inputs—the CV 20 brings Crest Audio sonic performance to new markets. Intuitive control layout allows simple, immediate access to key functions while configurable fader modes provide even more operational flexibility. High-quality dynamics processing is provided for all output groups, and like all Crest Audio consoles, sonic performance is second to none. An integral scene/mute controller coupled with full talkback, solo and cue functionality provide efficient operations. Support for redundant power supplies and a versatile expansion interface make the CV 20 a wise investment for any application.

CV™ 20 VCA CONSOLE

32, 40, 48, 56, OR 64 INPUT CHANNEL COMBINATIONS INCLUDING 8 STEREO CHANNELS IN EACH FRAME SIZE AND A METER BRIDGE OPTION

- Eight subgroups
- VCA masters
- Semi-modular inputs in blocks of eight
- Inserts on all mono and main outputs
- Optional Meter Bridge to monitor outputs in VU
- LED bar-graph metering on all inputs and outputs
- True LCR panning from mono inputs and subgroups
- Optional Bus Link modules that link two consoles
- Optional digital audio transport modules
- 24, 32, 40, 48 and 56 mono + 8 stereo frame sizes
- Flexible design allowing FOH, Monitors or Monitors from FOH applications
- Fader reverse function allows fader and VCA control on aux outputs
- 12 auxes with flexible configurations (1-4 mono, 5-10 switchable between mono and stereo, 11 & 12 stereo with pre and post switching in the same configuration)
- Full dynamics on all main outputs (L/R/M and subgroups) that are routable to the aux masters
- 16 mute groups, 136 mute scenes and 128 VCA assignment scenes with easy editing, snapshot automation and MIDI/RS485 control
- USB Link for saving settings via jump drive or external control via Crest Audio's NexSys® audio control software package
- Direct outs on all inputs (switchable between pre and post fader from the top of the surface)

Meter Bridge

An optional meter bridge is also provided for all CV™ frame sizes for analog monitoring (in VU) of all outputs. A total of 17 meters are provided on a meter bridge that is segmented into two sets. The first 12 meters can meter both subgroups and matrix outputs or by all 12 auxes engaging the aux switch. The second set of five meters are fixed to monitor the Left, Right, Mono/Center and Solo Left and Right busses.

Power Supplies

One internal, field-replaceable, power-factor corrected, universal power supply comes standard with all CV packages. A second PSU bay is provided on all CV units for a second redundant internal power supply. A DC connector also comes stock with CV units for an external PSU option.

Bus Link Module

Two CV 20 frames can be linked with the optional bus link module. By using DSUB 37 connectors, the busses from two consoles can be linked. Busses include: main buses (L/R/M), subgroups, auxes.

MIDI Controllers

The scene controller allows easy editing for mute and VCA assignment automation via a soft mute assignment, providing eight manual mute groups or scenes and 128 sequenced mute and VCA assignment scenes that can be controlled locally via MIDI and RS485 devices. Programs from the scene controller can be saved to a jump drive via the USB interface underneath the armrest. The USB interface can also connect a PC to program and control the scene controller via Crest Audio's NexSys® computer-controlled audio system hardware.

A TRUE VCA CONSOLE, THE CV 20 INCLUDES THREE PRIMARY (LCR) BUSSES, EIGHT SUBGROUPS AND TWELVE AUXILIARY BUSSES. AN EXPANDABLE MATRIX AND A GENEROUS ARRAY OF ADDITIONAL OUTPUTS.

Frame Size	Dimensions (W x D x H in inches)	Weight	Lights
CV20-32	61.9 x 34.6 x 12.4	145 lbs.	3
Standard Models include 24 Mono inputs + 8 Stereo			
CV20-40	72.7 x 34.6 x 12.4	165 lbs.	4
Standard Models include 32 Mono inputs + 8 Stereo			
CV20-48	83.4 x 34.6 x 12.4	185 lbs.	4
Standard Models include 40 Mono inputs + 8 Stereo			
CV20-56	94.2 x 34.6 x 12.4	205 lbs.	5
Standard Models include 48 Mono inputs + 8 Stereo			
CV20-64	104.9 x 34.6 x 1.4	225 lbs.	5
Standard Models include 56 Mono inputs + 8 Stereo			

MONO CHANNEL | STEREO MIC/LINE CHANNEL | MASTER SECTION | STEREO DUAL-LINE CHANNEL

CREST AUDIO®

THE MAGIC IS IN THE MIX

Breakthrough Console Performance

HP™ CONSOLES

The new HP Series consoles bring Crest Audio performance, new features and smart design to worship, small theater and related markets. With state-of-the-art analog electronics and innovative features such as integral automatic mixing, stereo input channels, stereo returns, a unique ambient mic input and a robust eight-group design, the HP Series is a great choice for any fixed installation. A powerful aux configuration with 10 aux busses, versatile connectivity and a unique "fader flip" feature provide the flexible routing required in demanding system designs. Complete with a talkback system and up to eight "smart" mute groups, modular construction, integral power supply and a robust chassis design, the HP Series is the new standard and the latest innovation from a legendary console designer.

HP W™ SERIES

20, 28, 36, 44, OR 52 MONO INPUT CHANNELS

CREST AUDIO®
THE MAGIC IS IN THE MIX

- 20, 28, 36, 44 or 52 standard Mono input channels (optional eight channels with gain sharing Automix®*- +4 stereo channels)
- XLR and 1/4" connectors on all inputs
- Two stereo line returns on 60 mm faders with assignment and two aux sends
- One stereo ambient mic input
- Eight analog subgroups
- 10 auxes
- XLR connectors on aux outputs
- Left, Right & Mono outputs
- 11 X 2 matrix
- Two alternate outputs that can be sourced from L, R, M or Matrix outputs with full dynamics
- "Fader flip" function on aux outputs places aux masters on 100 mm faders in place of groups & L/R
- 100 mm high-quality faders on mono inputs, auto mix inputs, stereo inputs, groups and separate left, right and mono outputs
- Eight microprocessor-controlled mute groups and scenes
- Full talkback and monitor systems
- Modular input blocks of eight channels for ease of service
- Internal, universal power supply with DC connector for external, redundant supply

**Automix modules available with 20 and 52 input channel frames as custom configurations*

Frequency Response:	20Hz – 20kHz +0/-0.ddB (Ref 1kHz) any input to any output
THD+Noise:	Input to Group or Main Output (Left/Right/Mono) <.01% THD 20Hz to 20kHz at 15dBu out
Noise:	(22Hz to 20kHz) Mic EIN: <-127 dBu Bus Noise: Better than –80dBu (32 chan routed) Residual output noise: <-90dBu
Crosstalk:	Channel Mute: >90dB Channel Routing: >85dB Channel fader attenuation: >85dB Aux Send attenuation: >80dB
Phase Shift:	<+/-30 degrees 20Hz to 20kHz mic into main out
XLR Inputs:	2.5kΩ ohms Balanced Max Voltage Gain: Mic-In to Group to Left/Right Balanced Out=90dB
Main Outputs:	L/R/Mono/Aux: 100Ω Balanced Male XLR Max Output = +28dBu Group: 50Ω Gnd-Compenstated/Impedance BAL TRS Max Output = +22dBu
Insert Points:	TRS Jack Tip = Send, Ring = Return Channel Insert level = +4dBu Bus Insert Levels = -2dBu
Power Supply:	Internal: 100-240 VAC, 50/60 Hz via IEC Mains Connector External: 7-Pin DC connector provided for redundant PSU
Dimensions/Weight:	
HP-W 52	Inches: 86 x 28 x 9 MM: 2171 x 702 x 229 145 lbs 66 kG
HP-W 44	Inches: 76 x 28 x 9 MM: 922 x 702 x 229 25 lbs 57 kG
HP-W 36	Inches: 66 x 28 x 9 MM: 1673 x 702 x 229 110 lbs 50 kG
HP-W 28	Inches: 56.5 x 28 x 9 MM: 424 x 702 x 229 90 lbs 41kG
HP-W 20	Inches: 46.5 x 28 x 9 MM: 1175 x 702 x 229 72 lbs 33 kG
	Dimensions are Width x Depth (Front-to-Back) x Height, rounded up the the nearest 1/2 inch or nearest MM

OPTIONAL ON ALL HP W CONSOLES ARE 8 MONO CHANNELS OF AUTOMIX™ FOR "HANDS-OFF" SPOKEN WORD MIXING APPLICATIONS. WITH A PUSH OF A BUTTON TO ACTIVATE THE AUTOMIX FEATURE, THE HP W WILL AUTOMATICALLY REDUCE THE GAIN ON MICROPHONES NOT BEING USED, WHICH NEARLY ELIMINATES FEEDBACK.

MONO CHANNEL | STEREO CHANNEL | MASTER SECTION | AUTOMIX CHANNEL

HP-8™ SERIES

23, 32, 40, 48 OR 50 MONO INPUT CHANNELS

CREST AUDIO®
THE MAGIC IS IN THE MIX

- 24, 32, 40, 48 or 56 Mono input channels
- 8 analog subgroups
- 10 auxes
- Left, Right & Mono outputs
- Five stereo line inputs on 60 mm faders with EQ, assignment and two aux sends
- Mono input channels have individual 48V phantom power, pad, polarity reverse and low-cut filter switches, with a four-band equalizer featuring high and low shelving and two overlapping bands of swept mid frequencies
- 10 independent aux sends on the mono input channels allows the HP-Eight to be used as a monitor mixer
- "Fader flip" function on aux outputs places aux masters on 100 mm faders in place of groups & L/R
- 100 mm high-quality faders on mono inputs, groups and separate left, right and mono outputs
- Four-channel scene mute system with master switches and LED indicators
- Full talkback and monitor systems
- Modular input blocks of eight channels for ease of service
- Internal, universal power supply with DC connector for external, redundant supply
- Two-channel matrix system fed pre or post from all eight subgroups and the three main (L/R/Mono) mix busses

Frequency response:	20Hz - 20kHz +0/-0.5dB (Ref 1kHz) Any input to any output
THD+Noise:	Input to Group or main output (Left/Right/Mono) <0.01% THD 20Hz to 20kHz at +15dBu out
Noise:	(22Hz to 20kHz) Mic EIN: <-127 dBu Bus Noise: Better the -80dBu (32 Chan Routed) Residual Output Noise
Crosstalk:	Channel Mute >90dB Channel Routing >85dB Channel fader attenuation >85dB Aux Send attenuation >80dB
Phase Shift:	<+/-30 degrees 20kHz mic in to main out
XLR Inputs:	2k5 ohms Balanced Max Voltage Gain: mic-In to Group to left/right balanced out = 90dB
Main Outputs:	L/R/Mono: 100Ω balanced mail XLR Max output = +28dBu Aux/Group:50Ω gnd-Compensated/Impedance Bal TRS Max Out = +22dBu
Insert Points:	TRS Jack Tip = Send, Ring = Return Channel Insert Level = +4dBu Bus Insert Levels = -2dBu
Power Supply:	Internal: 100-240 VAC, 50/60 Hz via IEC Mains connector External: 7-Pin DC Connector provided for redundant PSU
Dimensions/Weight:	
HP-EIGHT/56	Inches: 86 x 28 x 9 MM: 2171 x 702 x 229 145 lbs 66 kG
HP-EIGHT/48	Inches: 76 x 28 x 9 MM: 922 x 702 x 229 25 lbs 57 kG
HP-EIGHT/40	Inches: 66 x 28 x 9 MM: 1673 x 702 x 229 110 lbs 50 kG
HP-EIGHT/32	Inches: 56.5 x 28 x 9 MM: 424 x 702 x 229 90 lbs 41kG
HP-EIGHT/24	Inches: 46.5 x 28 x 9 MM: 1175 x 702 x 229 72 lbs 33 kG
	Dimensions are Width x Depth (Front-to-Back) x Height, rounded up the nearest 1/2 inch or nearest MM

WHERE EXTREME FLEXIBILITY AS WELL AS EXACTING AUDIO PERFORMANCE IS REQUIRED, THE HP-EIGHT DELIVERS THOSE ATTRIBUTES AND MORE TO THE BUDGET-CONSCIOUS INSTALLER AND END USER.

MONO CHANNEL

MASTER SECTION

CREST AUDIO

THE MAGIC IS IN THE MIX

The Difference is Clear

X-RACK™ CONSOLES

The Crest Audio X-Rack Series is regarded as the most sonically accurate and operationally quiet, professional-level rack-mount console range in the industry. With high-end performance and rock-solid construction, the X-Rack Series features a modular design coupled with an extensive feature set suitable for any application. Available in main and monitor configurations, X-Rack models are available with up to 12 mono and up to eight stereo inputs. Long-throw faders, versatile four-band semi-parametric EQ, channel inserts and high quality microphone preamplifiers are standard. Six configurable aux busses and three main busses provide plenty of mixing configurations, while the integral monitor and tape-level outputs provide additional flexibility.

X-RACK™ SERIES

XR20, XR24, XRM

CREST AUDIO
THE MAGIC IS IN THE MIX

XR20

- 12 mono inputs + four stereo inputs (20 inputs total), all with mic preamps and individual 48V phantom power switches
- 100 mm faders on all inputs and Left, Right, and Mono (center) Outputs; 60mm faders on the four subgroups
- Four-band EQ on all inputs
- 18 dB per octave high pass filters on mono inputs channels
- Insert on all inputs, subgroups, aux outs and L, R & M outputs
- Six aux buses, selectable pre or post fader in pairs
- Auxes 1 & 2 are configured as Level/ Pan for stereo operation
- XLR L, R & Mono outputs switchable between line and mic level
- ¼" TRS and RCA connectors provided on alt output, monitor
- Output and tape input

XR24

- Eight mono inputs + eight stereo inputs (24 inputs total), all with mic preamplifiers and individual 48V phantom power switches on each input channel
- Same features as XR20

XR20	
Frequency Response:	+0/-1dB 20 HZ-20kHz ref 1 kHz (Any input to any output)
THD:	Any out put <0.01% THD 20Hz-20kHz @ +15dBu out
Noise:	Mic in < -128dBu 20 Hz to 20kHz 150 ohm source, 60 dB gain
Crosstalk:	Channel mute >80dB channel routing >80dB channel fader attenuation >90dB aux send attenuation
Phase Shift:	< +/-30 degrees, 20 Hz to 20kHz - mic-in to main out
Mic-in:	XLR 4k ohm balanced max voltage gain to main outs = 98dB
Line-in XLR and TRS:	>10k Ohms Balanced
RCA tape input:	>10k Ohms Unbalanced
Bus inputs:	>10k Ohms Balanced
L/R/M outputs:	XLR 100 ohms balanced (Switchable between line or mic level)
Group/direct out:	TRS 50 ohms ground compensation
Aux outputs:	XLR & TRS 50 ohms gnd compensated
Headphones:	1/4" TRS to drive >8 ohm phones
Dimensions (H x W x D):	17.5" x 19" x 4.5" in depth behind panel
Internal Power Supply:	100 -240 VAC, 50/60 Hz
Weight:	30.5 lbs

XR24	
Frequency Response:	+0/-1dB 20 HZ-20kHz ref 1 kHz Any input to any output)
Mic E.I.N.:	< -128dBu 20Hz to 20kHz 150 ohm source, 60dB gain
Crosstalk:	Channel Mute >80dB, Channel routing >80dB, Channel fader attenuation >90dB, Aux send Attenuation >80dB
Phase Shift:	< +/-30 degrees, 20 Hz to 20kHz - mic-in to main out
Mic-inv	XLR 4k ohm balanced max voltage gain to main outs = 98dB
Line-in XLR and TRS:	RS >10k ohms balanced
RCA tape input:	RCA > 10k ohms unbalanced
Bus inputs:	XLR & TRS > 10k ohms balanced
L/R/M outputs:	XLR 100 ohms balanced (Switchable between line or mice level)
Group/direct out:	1/4" TRS 50 ohms ground compensated
Aux outputs:	XLR & TRS 50 ohms ground compensated
Headphones:	1/4" TRS to drive >8 ohm phones
Dimensions (H x W x D):	17.5" x 19" x 4.5" in depth behind panel
Internal Power Supply:	100 -240 VAC, 50/60 Hz
Weight:	38 lbs.

XRM

- 12 mono inputs plus four stereo mic/ line inputs (20 total), all with mic pre amps and individual (per channel) 48V phantom power switches
- Built in splitter system on all 20 XLR mic/line inputs with ground lift switches on each input channel
- Additional common stereo inputs on XLR and ¼" connectors for use with click or reference track sends to artists
- Four-band mid sweep EQs mono and stereo input channels
- 18 dB per octave high pass filter on mono input channels
- 12 fully balanced XLR outputs and XLR balanced bus inputs
- Solo link system compatible with other XR Series rack mixers
- 10-space rackmount configuration

AVAILABLE IN MAIN AND MONITOR CONFIGURATIONS, X-RACK MODELS ARE AVAILABLE WITH UP TO 12 MONO AND UP TO EIGHT STEREO INPUTS. LONG THROW FADERS, VERSATILE FOUR-BAND SEMI-PARAMETRIC EQ, CHANNEL INSERTS AND HIGH-QUALITY MICROPHONE PREAMPLIFIERS ARE STANDARD.

XRM	
Frequency Response:	+0/-1dB 20 HZ-20kHz ref 1 kHz (Any input to any output)
THD:	Any out put <0.01% THD 20Hz-20kHz @ +15dBu out
Mic E.I.N.:	< -128dBu 20Hz to 20kHz 150 ohm source, 60dB gain
Crosstalk:	Channel mute >80dB, Mix send attenuation >80dB
Phase Shift:	< +/-30 degrees, 20 Hz to 20kHz - mic-in to main out
Mic-in:	F-XLR 4k ohm balanced max voltage gain to main outs = 98dB
Split Out:	M-XLR Passive 'Y' splitter
Line-in:	TRS > 10k ohms balanced
Bus inputs:	XLR > 10k ohms balanced
Mix outputs:	XLR 100 ohms balanced
Direct Out:	1/4" TRS 50 ohms ground compensated
Headphones:	1/4" TRS to drive > eight-ohm phones
Dimensions (H x W x D):	17.5" x 19" x 4.5" in depth behind panel
Internal Power Supply:	100 -240 VAC, 50/60 Hz
Weight:	30 lbs

WITH SIX STEREO MIXES IN A COMPACT 10RU PACKAGE, THE XRM IS THE PERFECT RACK CONSOLE FOR IN-EAR MONITORING.

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Crest Audio reserves the right to make improvements in manufacturing or design which may affect specifications. Printed in the U.S.A. 80307397